

Speedip[®] V2

UAV-based Smart Liquid Sampling System

Say Goodbye to Rope Tangling
 Say Hello to Fully Autonomous Waypoint Mission
 Seamless Integration with DJI M350RTK/M300 RTK

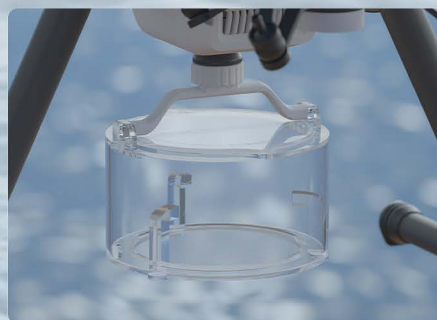


Speedip V2

The seamlessly integrated system can collect liquid samples at designated locations and depths, revolutionizing liquid sampling operations and giving operators full confidence while enhancing personnel safety.

<p>Fully Autonomous Waypoint Water Sampling Mission Speedip V2 supports fully autonomous water sampling mission using DJI Pilot's Waypoint Function Take-off -> Fly to target location -> Sample at designated depth -> Return and land Making routine water sampling easier than never before</p>	<p>Rope Tangling Detection Mechanism Automatically stops and warns the operator when the rope is about to tangle, minimizing the possibility of irreversible tangling</p>	<p>Grounding Detection Avoids and notifies about invalid sampling</p>	<p>New Smart Motion Control Logic Adjusts the container's movement speed based on the sampling stage, resulting in more representative liquid samples</p>
<p>Emergency Releasing Function Cuts the rope to free up the UAV to minimize loss when the container gets trapped</p>	<p>Ultra-lightweight Design Main body weights only 540g, thanks to the use of magnesium alloy</p>	<p>2 x 1L Liquid Sampling Volume 1L Stainless Steel & 1L PMMA container in standard package (quantity options available) One container full of liquid is well within the payload limit</p>	
<p>Built-in Downward Facing Camera Starlight level performance, better situational awareness</p>	<p>Built-in High-resolution mm-wave Radar 1mm ultra-high resolution, accurately measuring water distance and container depth</p>	<p>Mounting & Dismounting within 10s When integrated with DJI M350 RTK/M300 RTK</p>	<p>API Available Facilitating integration with diverse UAVs</p>

With its elegant mechanical and electronic design, Speedip V2 is extraordinarily lightweight, maximizing UAV's payload capacity for carrying liquid samples. Two types of containers are available for different situations.

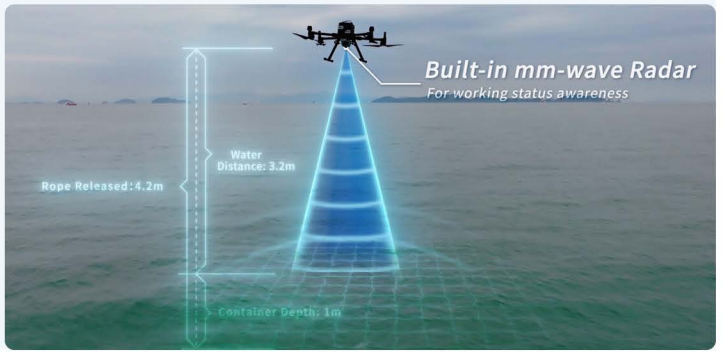


1L-PMMA
 For static liquids & additional H20T Camera



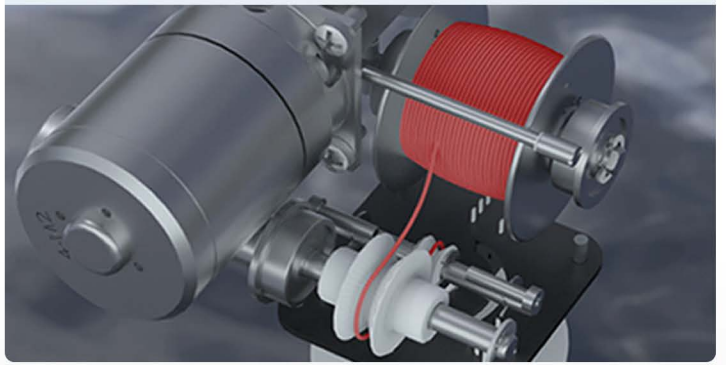
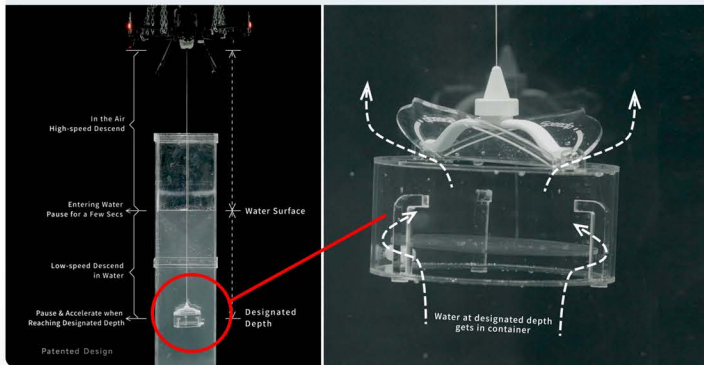
1L-Stainless Steel
 For dynamic or corrosive liquids

Speedip V2 has powerful environmental situational awareness, giving operators full confidence even during complex long-distance operations.



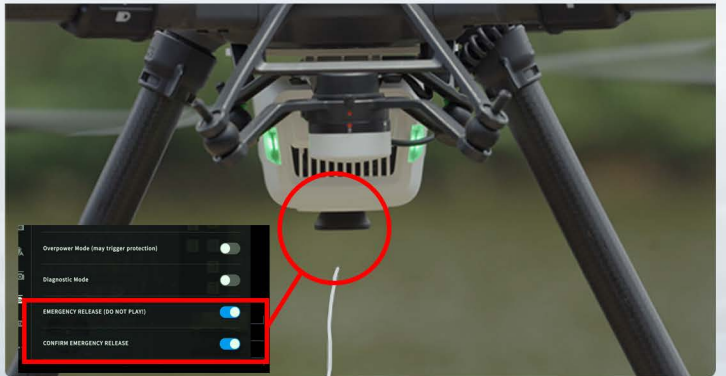
The smart "Motion Control Logic" adjusts the container's movement speed based on the sampling stage, resulting in a much smoother sampling process, more precise depth control, and more representative liquid samples.

Speedip V2 is equipped with a unique rope tension and tangling detection mechanism that automatically stops and warns the operator when the container touches the ground or when the rope is about to tangle, minimizing the possibility of irreversible tangling.

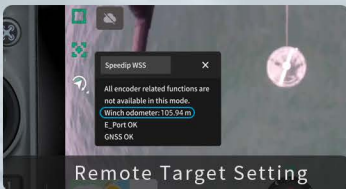


The optimized mechanical components also enhance the reliability and stability of the device.

When the container is trapped, Speedip V2's emergency releasing function cuts the rope and brings the UAV back, so that loss can be minimized.



More Functionalities



Typical Applications

